PrepaCare xr

Datasheet
Online Tools for Medical Teaching & Learning

This datasheet gives an overview about the current status (09/2021) of available online tools which are and/or can be used for learning, teaching and training in the medical and healthcare sector. The list does not aim for completeness but shall provide examples of existing technical solutions, with special focus on simulation, as this was one of the main topics within the scope of the PrepaCare(XR) project.

The products offer different features and partially allow for customization. The determined characteristics were as follows:

- Handling: active participation possible or only passive learning
- Format: learning options with or without supporting media
- Methods: learning materials with or without self-check options
- Situation: theoretical knowledge or practical application
- Object: technology-based or patient-based
- Mobility: mobile or static
- Cost: free of charge, with ads, or fee required
- Language: available languages, preferably English
- Design options: fixed design or customizable

Product examples and included features:

#	Product	Handling		Format		Methods		Situation		Object		Mobility		Cost		Language		Design options	
		Active	Passive	Video/Picture	Text	Self-check option	Learning materials	Patient	Theory	Device	Patient	Mobile (App)	Static	Free	€	English	Other []	Existing	Self-design
1	Lecturio		X	X			X		X		X	X			X		[DE]	X	X
2	Onlinemeded		X	X			X		X		X		X	With Ad	X	X		X	
3	Hamilton	X (simulation & hotspots)	X	X	X	X	X	X	X	X	X				X	X	[DE, ESP, FR]	X	
4	Interlake	X		X	X	X	X	X	X	X	X			X	X		X	[DE]		X
5	Casus	X			X	X		X			X			X	X	X	[DE,ESP,FR,…]	X	
6	Kubify	X	X (free version)	X			X	X	X		X			X			X		X	
7	Da-Vincy-System	X		X			X	X	X	X	X			X		X		X	
8	xPanda (xTrend)	X		X			X	X	X	X	X			X			[CH]		X
9	Microsoft Kinect Camera	X		X			X	X	X	X	X			X		X		X	
10	H5P Interactive Video	X		X		X	X	X	X	X	X	X			X	X			X
11	H5P Hotspots	X		X		X	X	X	X	X	X	X			X	X			X
12	H5P Virtual tour	X		X		X	X	X	X	X	X	X			X	X			X
13	H5P Branching scenario	X		X		X		X	X	X	X	X			X	X			X
14	Microsoft Office 356	X		X	X	X	X	X	X	X	X	X		X			[All]		X
15	Surgery Reference		X	X	X		X	X			X	X		X		X		X	
16	Orthorad		X	X	X		X	X			X	X		X			[DE]	X	

Selected technologies provided by the different products, sorted by level of fidelity:

Technology	Product number
Text (Poster, PowerPoint, …)	3, 4, 6, 15
Online Video (no interaction)	1, 2, 3, 4, 6
Interactive video	4, 11, 13, 14
Hotspots	3, 12, 15
Simulation	3, 5, 6, 13, 14, 15
Virtual tour	13, 15
Augmented reality	7, 8, 9, 10
Virtual patient	5, 16, 17
Virtual reality	10